

FOUNDATION RECOMMENDATIONS

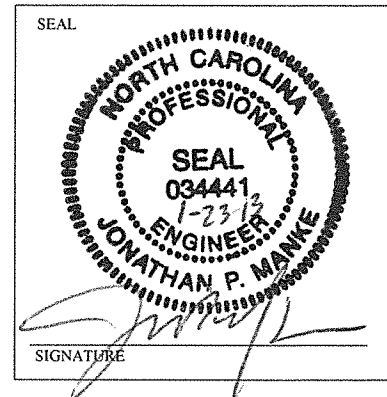
PROJECT 17BP.7.R.10 DESCRIPTION

T.I.P. NO. 17BP.7.R.10 Bridge No. 300 on State Route 3355 (Layton Road)

COUNTY Guilford over the South Prong of Stinking Quarter Creek

STATION ~12+61.50 -L-

	INITIALS	DATE
DESIGN	JPM	1/18/2013
CHECKED	DJC	1/18/2013
FINAL	JPM	1/23/2013



	STATION	FOUNDATION TYPE	FACTORED RESISTANCE	MISCELLANEOUS DETAILS
END BENT NO. 1	12+34.00 -L-	Cap on excavated HP 12 x 53 steel piles	75 tons/pile	Bottom of Cap Elevation = 602.5 feet +/- Estimated Average Pile Length = 10 feet Number of Piles/Cap = 7
END BENT NO. 2	12+89.00 -L-	Cap on excavated HP 12 x 53 steel piles	75 tons/pile	Bottom of Cap Elevation = 603 feet +/- Estimated Average Pile Length = 10 feet Number of Piles/Cap = 7

FOUNDATION RECOMMENDATION NOTE ON PLANS AND COMMENTS

W.B.S. No.: 17BP.7.R.10 BRIDGE NO: 400300 COUNTY: Guilford

STATION: ~12+61.50 -L-

DESCRIPTION: Bridge #300 on SR 3355 (Layton Rd) over the South Prong of Stinking Quarter Creek

COMMENTS & NOTES (See Following Page)

Note on Plans:

1. FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATION.
2. PILES AT END BENT NOS. 1 AND 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 75 TONS PER PILE.
3. PILE EXCAVATION IS REQUIRED TO INSTALL PILES AT END BENT NO. 1. EXCAVATE HOLES AT PILE LOCATIONS TO ELEVATION 592.5 FT. FOR PILE EXCAVATION, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
4. PILE EXCAVATION IS REQUIRED TO INSTALL PILES AT END BENT NO. 2. EXCAVATE HOLES AT PILE LOCATIONS TO ELEVATION 593 FT. FOR PILE EXCAVATION, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
5. CONCRETE IS REQUIRED TO FILL HOLES FOR PILE EXCAVATION AT END BENT NOS. 1 AND 2.

Comments:

1. USE 1.5 : 1 (H:V) END BENT SLOPES WITH CLASS II RIP-RAP SLOPE PROTECTION.
2. THE AVERAGE FACTORED AXIAL LOAD AT END BENT NOS. 1 AND 2 IS 71 TONS PER PILE.
3. USE SUB-REGIONAL BRIDGE APPROACH FILLS AT BOTH END BENTS.

PILE PAY ITEMS

(Revised 8/15/12)

WBS ELEMENT 17BP.7.R.10

TIP NO. 17BP.7.R.10

COUNTY Guilford

STATION ~12+61.50 -L-

DATE 1/23/2013

DESIGNED BY J. Manke

CHECKED BY D. Corley

DESCRIPTION Bridge No. 300 on SR 3355 (Layton Road) over the South Prong of Stinking Quarter Creek

NUMBER OF BENTS WITH PILES _____

NUMBER OF PILES PER BENT _____

NUMBER OF END BENTS WITH PILES 2

NUMBER OF PILES PER END BENT 7

Only required for "Predrilling
for Piles" & "Pile
Excavation" pay items

Bent # or End Bent #	PILE PAY ITEM QUANTITIES						
	Steel Pile Points (yes/no)	Pipe Pile Plates (yes/no/maybe)	Predrilling For Piles (per linear ft)	Pile Redrives (per each)	Pile Excavation (per linear ft)		PDA Testing (per each)
					In Soil	Not In Soil	
End Bent 1	no	no	no	no	38	32	
End Bent 2	no	no	no	no	42	28	
TOTALS			0	0	80	60	

Notes:

Blanks or "no" represent quantity of zero.

If steel pile points are required, calculate quantity of "Steel Pile Points" as equal to the number of steel piles.

If pipe pile plates are or may be required, calculate the quantity of "Pipe Pile Plates" as equal to the number of pipe piles.

Show quantity of "PDA Testing" on the plans as total only.

If quantity of "PDA Testing" is 3 or less, reference "Pile Driving Criteria" provision in PDA notes on plans and include "Pile Driving Criteria" provision in the contract.